Approved for use through 09/30/98, OMB 0651-0031 Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Please type a plus sign Department of Commerce 1449A/PTO Patent and Trademark Office Application Number

RITOR ART CITED BY

of

Complete if Known Filing Date First Named Inventor Group Art Unit Examiner Name Attorney Docket Number

PTO/SB/08A (6-95)

U.S. PATENT DOCUMENTS

U.S. Patent Document Pages, C						Pages, Columns,
Examiner Initials	Cite No.1	Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Lines, Where Relevant Passages or Relevant Figures Appear
					RECE	IVED
					AUG 0	6 2002
					TECH CENTE	R 1600/2900

FOREIGN PATENT DOCUMENTS

Examiner Initials			eign Patent D	Kind	nt Code nown)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
مورے	AA	wo	91/06631			Case Western	05-16-1991		
cm	AB	wo	94/01135			Present Production	01-20-1994		
	A								
			1						↓_
									ļ
							·		
									_
									$oxed{igspace}$
			ļ						<u> </u>

EXAMINER SIGNATURE 2003

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant,

I Unique citation designation number. 2 ee attached kinds of U.S. Patent Documents. E3 ter Office that issued the document, by the two letter code (WIPO Standard ST.3). For 4 spanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of docus ent by the appropriate symbols as indicated on the document under WIPO Standard ST.1 if possible. Applicant is to place a 6 leck mark here if English language Translation is attached.

PTO/SB/08A (6-95) Approved for use through 09/30/98, OMB 0651-0031 Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Please type a plus sign (-

1449A/PTO U.S. Department of Commerce

Patent and Trademark Office LIST OF PRIOR ART CITED SYP

APPLICANT (use as many sheets as necessary AUG 0 1 2002

of Sheet

Comple	te if Known
Application Number	09/868,036
Filing Date	AMAN 11,2002
First Named Inventor	RAY GAL
Group Art Unit	100 Acces 0 1647
Examiner Name	LANGE WICHOLS
Attorney Docket Number	A3400 US PCT

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, country, where published, source.	Т2
ري	AZ	Adrien, J. et al., Biochemical and Electrophysiological evidence for an agonist action of CM57493 at pre- and post-synaptic 5-HT1A receptors in Brain, J. Pharmacol. Exp. Ther. 248:1222-1230 (1989)	\mathbb{H}
روی	AD	Aloisi, F. et al., Astrocyte Cultures from Human Embryonic Brain: Characterization and modultion of Surface Molecules by Inflammatory Cytokines, J. Neurosci. Res. 32:494-506 (1992)	
W	AE	Aubert, I. et al., Regeneration in the Adult Mammalian CNS: Guided by Development., Curr. Opin. Neurobiol. 5:625-635 (1995)	
63	AF	Bilang-Bleuel et al., Intrastriatal Injection of an Adenoviral Vector Expressing GDNF Prevents Dopaminergic Neuron Degeneration and Behavioral Impairment in a Rat Model of Parkinson's Disease, Proc. Natl. Acad. Sci. USA 94:8818-8823 (1997)	
43	A6	Castillo Jr. et al., Reginal Ganglion Cell survival is Promoted by Genetically Modified Astrocytes designed to Secrete Brain-Derived Neutrophic Factor (BDNF), Brain Res. 647:30-37 (1994)	
(3 ⁾	Ан	Corti et al., Intracerebral Tetracycline-dependent Regulation of Gene Expression in Grafts of Neural Precursors., NeuroReport 7:1655-1659 (1996)	
cg	AI	Cunningham et al., The Use of Genetically Altered Astrocytes to Provide Nerve Growth Factor (NGF) to Adrenal Chromaffin Cell Grafted into the Striatum., Brain Res. 561:192-202 (1991)	_
9	AT	Cunningham et al., Nerve Growth Factor Released by Transgenic Astrocytes enhanced the Function Adrenal Chromaffin Cell Grafts in a Rat Model of Parkinson's Disease, Brain Res. 568:219-223 (1994) AUG 0 6: 24	

EXAMINER SIGNATURE	DATE CONSIDERED 6 18103	TECH CENTER 1600
67U12 (165)	6 10102	I LOTT OF MENT 1000/5

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered include copy of this form with next communication to applicant.

I Unique citation designation number. 2 applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (6-95) Approved for use through 09/30/98, OMB 0651-0031 Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE de this box U.S. Department of Danie Ce Complete if Known Patent and Trademark Office Application Number Filing Date OR ART CITED BY First Named Inventor many sheets as necessary) Group Art Unit Examiner Name Attorney Docket Number 3 of Sheet

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, country, where published, source.	Т2
0	AK	Fisher et al., Grafting in the Mammalian Central Nervous System, Physiol. Rev. 73:583-616 (1993)	
03	AL	Fisher, L.J., Neural Precursor Cells: Applications for the Study and Repair of the Central Nervous System., Neurobiol. Dis. 4:1-22 (1997)	
CS	Am	Fisher et al., Survial and Function of Intrastriatally grafted Fibroblasts Genetically modified to Produce L-DOPA., Neuron 6:371-380 (1996)	
090	AN	Pritschy et al., Brain Cell Type Specificity and Gliosis-Induced Activation of the Human Cytomegalovirus Immediate-Early Promoter in Transgenic Mice., J. Neurosci. 16:2275-82 (1996)	_
05	Ao	Gage et al., Isolation, Characterization and Use of Stem Cells from the CNS., Ann. Rev. Neurosci. 18:159-192 (1995)	
OS	AP	Goodman et al., Adrenoviral-mediated Thymidine Kinase Gene Transfer into the Primate Brain followed by Systemic Ganciclovir: Pathologic, Radiologic and Molecular Studies., Human Gene Ther. 7:1241-1250 (1996)	
100 S	10	Gossen et al., Tight Control of Gene Expression in Mammalian Cells by Tetacycline-responsive Promoters, Proc. Natl. Acad. Sci. USA 89:5547-5551 (1992)	
45	AR	Gossen et al., Transcriptional Activation by Tetracyclines in Mammalian Cells, Science 268:1769-1769-1769-1769-1769-1769-1769-1769-	
L	ــــــــــــــــــــــــــــــــــــــ	AUG 0 6 2002	Ь

EXAMINER SIGNATURE DATE CONSIDERED 6/8/03TECH CENTER 1600/2900

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered unclude copy of this form with next communication to applicant.

1 Unique citation designation number. 2 applicant is to place a check mark here if English language Translation is attached.

Please type a plo			NIG 0 1 70	Refent and Trademark Office	PTO/SB/08A (6-95) use through 09/30/98, OMB 0651-0031 e: U.S. DEPARTMENT OF COMMERCE
1449AVP10	NIE DE BOOK	Patent and To	rademark Office	Application Number	04/868,026
LIST		ÄRT CITEI	D BY	Filing Date	JAMAN 11, 2002
) d	MARBO	CANT		First Named Inventor	DIOLY GT AL
(us	ds many shee	ets as necessar	y)	Group Art Unit	moderates 1017
				Examiner Name	MAHEBY NICHOLS
Sheet	4	of	7	Attorney Docket Number	A3400 US PCT

PEVO

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, country, where published, source.	Т2
3	As	Horellou et al., In vivo Release of DOPA and Dopamine from Genetically Engineered Cells Grafted to the Denervated Striatum., Neuron 5:393-402 (1990a)	
6	AT	Horellou et al., Behavioral Effect of Engineered Cells that synthesize L-DOPA or Dopamine after Grafting into the Rat Neostriatum, Eur. J. Neurosci. 2:116-119 (1990b)	
(3)	An	Horellou et al., Direct Intracerebral Gene Transfer of an Adenoviral Vector Expressing Tyrosine Hydroxylase in a Rat Model of Parkinson's Disease, NeuroReport 6:49-53 (1994)	
03	AV	Juorio et al., Decarboxylation of L-DOPA by Cultured Astrocytes., Brain Res. 626:49-53 (1993)	
روی	AW	Kistner et al., Doxycycline-mediated Quantitative and Tissue-specific Control of Gene Expression in Transgenic Mice., Proc. Natl. Acad. Sci. USA 93:10933-10938 (1996)	
B	AX	Kojima et al., Adenovirus-mediated Transduction with Human Glial Cell Line-derived Neurotrophic Factor Gene Prevents 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine-induced Dopamine Depletion in Striatum of Mouse Brain, Biochem. Biophys. Res. Commun. 238:569-573 (1997)	
65	AV	La Gamma et al., Genetically Modified Primary Astrocytes as Cellular Vehicles for Gene Therapy in the Brain., Cell Transplant. 2:207-214 (1993)	
B	AZ	Levallois et al., An Adenovirus Vector Ecoding Tyrosine Hydroxylase Activity may Enter Huminical Artimacyl Dissociated Cultures., Int. J. Dev. Neurosci. 14:613-619 (1996) AUG @ 3 2002	

EXAMINER SIGNATURE CONSIDERED CIBIOS

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Unique citation designation number. 2 applicant is to place a check mark here if English language Translation is attached.

	* \	
MIR 0 1 2012	Approved for	PTO/SB/08A (6-95) r use through 09/30/98, OMB 0651-0031
e this box		e: U.S. DEPARTMENT OF COMMERCE
U.S. Department of Sommerce	Comple	ete if Known
Patent and Trademark Office	Application Number	0.4/868,026
ART CITED BY	Filing Date	TAMAR 11, LOOR
CANT	First Named Inventor	ACOKY GY AL.
ts as necessary)	Group Art Unit	workstates 1647
	Evaminer Name	1 10 12 12 1 1 1 1 C

A3400

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Attorney Docket Number

Please type a plus right (1) inside this box

5

of

1449A/PTO

Sheet

trocytes in an Ex Vivo Gene Therapy Vehicle for Delivering Biologically Active Nerve Growth 8:331-339 (1997)	2
n of DOPA-producing Astrocytes by Retroviral Transduction of the Human Tytosinase Characterization and In vivo Effects in the Rat Parkinson Model, Exp. Neurol. 139:39-53 (1996)	_
Oxicity of Ganciclovir for Rat Neurons and Astrocytes in Primary Culture following sfer of the HSVtk Gene, Gene Ther. 4:25-31 (1997)	
unortalized Neural Progenitor Cells for CNS Gene Transfer and Repair, Trends Nerosci. 20:	
ranscriptionally Targeted and Regulatable Vectors for Gene Therapy, Hum. Gene Ther. 8:803-815	
Transplantation as a Therapy for Parkinson's Disease, Trends Neruosci. 19:102-109 (1996)	
ce of GFAP-Positive Cells in Adult Human Brain Cultures Spontaneously Decelerated in Growth,	_
uman Glial Cells Following Transplantation in Normal Rodents and Rodent Models of Resident Res. 695:25-36 (1995)	_
	Transplantation as a Therapy for Parkinson's Disease, Trends Neruosci. 19:102-109 (1996) c of GFAP-Positive Cells in Adult Human Brain Cultures Spontaneously Decelerated in Growth, uman Glial Cells Following Transplantation in Normal Rodents and Rodent Models of

EXAMINER SIGNATURE

DATE CONSIDERED

(a) B CENTER 1600/2910

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Unique citation designation number. 2 pplicant is to place a check mark here if English language Translation is attached.

Please type a pl	12. 19	•	AUG 0 1 2000	(2) Approved for	PTO/SB/08A (6-95) use through 09/30/98, OMB 0651-0031 U.S. DEPARTMENT OF COMMERCE
1449A/PTØ		U.S. Departm	ent of College	Comple	nte if Known
(-0 '	me Contraction of the contractio	.1	rademark Office	Application Number	04/868,036
LIS	PRIOR	ART CITE	D BY	Filing Date	TANARO 11, 2002
3	MADERIPLI	CANT		First Named Inventor	ROSET CT 12
(छड	e as many she	ets as necessa	ry)	Group Art Unit	MARKETINE RAT
				Examiner Name	UPACKSONS NICHEL
Sheet	6	of	7	Attorney Docket Number	A3400 115 PCT

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, country, where published, source.	Т2
w	B1	Reinhard et al., A Rapid and Sensitive Assay for Tyrosine-3-Monooxygenase Based Upon theRelease of 3H20 and Adsorption of (3H)-Tyorsine by Charcoal, Life Sci. 39:2185-2189 (1986)	_
B	135	Ridet et al., Reactive Astrocytes: Cellular and Molecular Cues to Biological Function., Trends Neruosci. 20:570-577 (1997)	
روں	BK	Ridoux et al., The use of Adenovirus Vectors for Intracerebral Grafting of Transfecting Nervous Cells, NeuroReport 5:801-804 (1994)	
coy	BL	Sabate et al., Transplantation to the Rat Brain of Human Neuroal Progenitors that were Genetically Modified using Adenovirus., Nature Genet. 9:256-260 (1995)	
19	BA	Saez et al., Inducible Gene Expression in Mammalian Cells and Transgenic Mice, Curr. Opin. Biotechnol. 8:608-616 (1997)	
03	BN	Shockett et al., A Modified tetracycline-Regulated System Provides Autoregulatory, Inducible Gene Expression in Cultured Cells and Transgenic Mice., Proc. Natl. acad. Sci. USA 92:6522-6526 (1995)	
9	Bo	Stachowiak et al., Growth Factor Regulation of Cell Groth and Proliferation in the Nervous System, Mol. Neurobiol. 15:257-283 (1997)	
روبا	BP	Streit, W.J., An Improved Staining Method for Rat Microglial Cells Using the Lectin from Griffonia Simplicifolia (GSA I-B4), J. Histochem. Cytochem. 38:1683-1686 (1990)	
	L	AUG 0 6 2002	

EXAMINER SIGNATURE

DATE CONSIDERED

6/8/INCENTER 1600/2000

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant.

1 Unique citation designation number. 2 pplicant is to place a check mark here if English language Translation is attached.

Ap.

Please type a plus sign (+) inside

PTO/SB/08A (6-95)
Approved for use through 09/30/98, OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

		- A / HAUE			
1449A/PTO		U.S. Departmen		Complete if Known	
		Patent and Tra		Application Number	04/868.026
LIST	OF PRIOR	ART CITED	ENPE &	Filing Date	Jana 11, 2002
APPLICANT /			آسمه	rst Named Inventor	ROST GAL
(use as many sheets as necessary) AUG-012 9000			ME ols some	Phoup Art Unit	MAKKENDO 1617
		- 1 B	PA \	Examiner Name	MAKES & PICHOCS
Sheet	7	or\ \}\		Attorney Docket Number	A3400 US PCT
			THATE		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, country, where published, source.	Т2
cg	BO	Taylor, R., Cell Vehicles for Gene Transfer to the Brain, Neuromuscul. Dis. 7:343-351 (1997)	
09	BK	Wolffet al., Grafting Fibroblasts Genetically Modified to Produce L-DOPA in a Rat Model of Parkinson's Disease, Proc. Natl. Acad. Sci. USA 86:9011-9014 (1989)	
COP C	B5	Yong et al., Gamma-interferon Promoters Proliferation of Adult Human Astrocytes In Vitro and Reactive Gliosis in the Adult Mouse Brain In Vivo., Proc. Natl. acad. Sci. USA 88:7016-7020 (1991)	
ري	BT	Yoshimoto et al., Astrocytes Retroviraly Transduced with BDNF Elicit Behavioral Improvement in a Rat Model of Parkinson's Disease, Brain Res. 691:25-36 (1995)	
B	Bu	De Groot et al., Establishment of Human Adult Astrocyte Cultures Derived from Postmortem Multiple clerosis and Control Brain and Spinal Cord Regions, J. Neurosci. Res. 49(3):342-354 (1997)	
رچی	BV	Ridet et al., Toward Autologous Ex Vivo Gene Therapy for the Central Nervous system with Human Adult Astrocytes, Human Gene Therapy 10(2):271-280 (1999)	H
		RECEIVED	
		AUG 0 & 2002	\coprod
		TECH CENTER 1600/2900	

EXAMINER SIGNATURE		DATE CONSIDERED CIGIL	
	(A MARVA)	6003	
EXAMINER: Initial if reference co	onsidered, whether or not citation is in	conformance with MPFP 609. Draw line through citation if not in	_

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Unique citation designation number. 2 upplicant is to place a check mark here if English language Translation is attached.